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DATE: Wednesday, July 26, 2006

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		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L6	mucociliary clearance and bikunin	7
<input type="checkbox"/>	L5	mucociliary clearance and bikunin	0
<input type="checkbox"/>	L4	L1 and bikunin	2
<input type="checkbox"/>	L3	L1 and Kunitz	1
<input type="checkbox"/>	L2	L1 and Kunitz and serine protease inhibitor	1
<input type="checkbox"/>	L1	chronic obstructive lung disease	753

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Search Results - Record(s) 1 through 7 of 7 returned.

☐ 1. Document ID: US 20050222023 A1

L6: Entry 1 of 7

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050222023

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050222023 A1

TITLE: Albumin-fused kunitz domain peptides

PUBLICATION-DATE: October 6, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hauser, Hans-Peter	Marburg	PA	DE
Weimer, Thomas	Gladenbach	IL	DE
Romberg, Val	Parkerford	MD	US
Kee, Scott M.	Bourbonnais	MA	US
Sleep, Darrell	Nottingham		GB
Ladner, Robert Charles	Ijamsville		US
Ley, Arthur C.	Newton		US

US-CL-CURRENT: [514/12](#); [530/363](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D.
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☐ 2. Document ID: US 20040171794 A1

L6: Entry 2 of 7

File: PGPB

Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040171794

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040171794 A1

TITLE: Kunitz domain peptides

PUBLICATION-DATE: September 2, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ladner, Robert Charles	Ijamsville	MD	US
Ley, Arthur C.	Newton	MA	US

US-CL-CURRENT: 530/324

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. D.
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☐ 3. Document ID: US 20040167184 A1

L6: Entry 3 of 7

File: PGPB

Aug 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040167184

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040167184 A1

TITLE: Treatment of lung cells with histone deacetylase inhibitors

PUBLICATION-DATE: August 26, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wiech, Norbert L.	Phoenix	MD	US
Lan-Hargest, Hsuan-Yin	Fallston	MD	US

US-CL-CURRENT: 514/357; 514/408, 514/430, 514/471

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. D.
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☐ 4. Document ID: US 7019123 B2

L6: Entry 4 of 7

File: USPT

Mar 28, 2006

US-PAT-NO: 7019123

DOCUMENT-IDENTIFIER: US 7019123 B2

TITLE: Human bikunin

DATE-ISSUED: March 28, 2006

## PRIOR-PUBLICATION:

DOC-ID	DATE
US 20030194398 A1	October 16, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tamburini; Paul P.	Kensington	CT		US
Davis; Gary	Milford	CT		US
Delaria; Katherine A.	West Haven	CT		US
Marlor; Christopher W.	Bethany	CT		US
Muller; Daniel K.	Orange	CT		US

US-CL-CURRENT: 536/23.1; 435/195, 435/320.1, 435/440, 435/69.1

## ABSTRACT:

The instant invention provides for proteins, polypeptides, nucleic acid sequences, constructs, expression vectors, host cells, pharmaceutical compositions of, and methods for using human placental bikunin, serine protease inhibitor domains, and fragments thereof

6 Claims, 24 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 41

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 5. Document ID: US 6989369 B2

L6: Entry 5 of 7

File: USPT

Jan 24, 2006

US-PAT-NO: 6989369

DOCUMENT-IDENTIFIER: US 6989369 B2

TITLE: Kunitz domain peptides

DATE-ISSUED: January 24, 2006

## PRIOR-PUBLICATION:

DOC-ID

DATE

US 20040171794 A1

September 2, 2004

## INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Ladner; Robert Charles

Ijamsville

MD

US

Ley; Arthur C.

Newton

MA

US

US-CL-CURRENT: 514/12; 530/324

## ABSTRACT:

The invention relates to a Kunitz domain peptide, designated DPI-14 herein, for inhibiting human neutrophil elastase. The invention also relates to a method of using a DPI-14 for treating cystic fibrosis or cystic fibrosis-related disease or disorder.

27 Claims, 6 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 6. Document ID: US 6583108 B1

L6: Entry 6 of 7

File: USPT

Jun 24, 2003

US-PAT-NO: 6583108

DOCUMENT-IDENTIFIER: US 6583108 B1

**\*\* See image for Certificate of Correction \*\***TITLE: Human bikunin

DATE-ISSUED: June 24, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tamburini; Paul P.	Kensington	CT		
Davis; Gary	Milford	CT		
Delaria; Katherine A.	West Haven	CT		
Marlor; Christopher W.	Bethany	CT		
Muller; Daniel K.	Orange	CT		

US-CL-CURRENT: 514/2; 435/69.2, 514/12, 514/8, 530/324, 530/350, 530/395, 536/23.5

## ABSTRACT:

The instant invention provides for proteins, polypeptides, nucleic acid sequences, constructs, expression vectors, host cells, pharmaceutical compositions of, and methods for using human placental bikunin, serine protease inhibitor domains, and fragments thereof.

9 Claims, 42 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 41

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 7. Document ID: MX 230915 B, WO 200037099 A2, AU 200019878 A, EP 1140150 A2, CN 1334743 A, JP 2002532558 W, AU 758832 B, MX 2001006510 A1, EP 1140150 B1, DE 69912988 E, EP 1374891 A1, ES 2209542 T3

L6: Entry 7 of 7

File: DWPI

Sep 29, 2005

DERWENT-ACC-NO: 2000-452127

DERWENT-WEEK: 200617

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TITLE: Stimulating mucociliary clearance rate of mucus and sputum in lung airways for treating lung diseases such as cystic fibrosis and bronchitis involves administering a Kunitz-type serine protease inhibitor

INVENTOR: HALL, R; NEWTON, B B ; POLL, C T ; TAYLOR, W J A ; HALL, R L

PRIORITY-DATA: 1999US-0441966 (November 17, 1999), 1998US-0218913 (December 22, 1998)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>MX 230915 B</u>	September 29, 2005		000	A61K038/57
<u>WO 200037099 A2</u>	June 29, 2000	E	173	A61K038/57
<u>AU 200019878 A</u>	July 12, 2000		000	A61K038/57
<u>EP 1140150 A2</u>	October 10, 2001	E	000	A61K038/57
<u>CN 1334743 A</u>	February 6, 2002		000	A61K038/57
<u>JP 2002532558 W</u>	October 2, 2002		227	A61K038/55
<u>AU 758832 B</u>	April 3, 2003		000	A61K038/57
<u>MX 2001006510 A1</u>	January 1, 2002		000	A61K038/57
<u>EP 1140150 B1</u>	November 19, 2003	E	000	A61K038/57
<u>DE 69912988 E</u>	December 24, 2003		000	A61K038/57
<u>EP 1374891 A1</u>	January 2, 2004	E	000	A61K038/57
<u>ES 2209542 T3</u>	June 16, 2004		000	A61K038/57

INT-CL (IPC): A61 K 9/12; A61 K 9/72; A61 K 38/55; A61 K 38/57; A61 K 47/02;  
A61 P 11/00; A61 P 11/02; A61 P 11/06; A61 P 11/12; A61 P 27/16; A61 P 43/00;  
C07 K 14/81

ABSTRACTED-PUB-NO: WO 200037099A

## BASIC-ABSTRACT:

NOVELTY - Accelerating the rate of mucociliary clearance in a subject comprising administering a composition (I) comprising a Kunitz-type serine protease inhibitor (KSPI).

ACTIVITY - Antiinflammatory. The effect of the Kunitz family serine protease inhibitor, bikunin, was studied on sheep tracheal mucus velocity (TMV) over 8 hours after treatment with bikunin. 9 mg bikunin (3 ml of 3 mg/ml) was administered by a nebulized aerosol to the airways and to measure TMV, 5-10 radiopaque Teflon (RTM) particles were insufflated into the trachea via a catheter placed within the endotracheal tube. The movement of the Teflon (RTM) particles was then measured for 1 minute. TMV was calculated from the average distance in a cephalad direction traveled per minute for 5 - 10 Teflon particles. Baseline TMV was measured immediately prior to administration of the aerosol for 8 hours with an interval of 1 hour. The results showed that bikunin aerosol delivered to sheep airways significantly increased TMV at 8 hours compared to the same time for a group of animals receiving phosphate buffered saline (PBS) vehicle aerosol.

MECHANISM OF ACTION - Serine protease inhibitor.

USE - Kunitz-type serine protease inhibitors are useful for stimulating the rate of mucociliary clearance of mucus and sputum in the lung airways (claimed). The inhibitors are useful for treating lung diseases such as cystic fibrosis, chronic bronchitis, bronchiectasis and chronic sinusitis and glue ear caused by retention and accumulation of mucus.

ADVANTAGE - The composition reduces or eliminates mucus and sputum in lung airways in patients with chronic obstructive lung disease and reduces the risk of secondary lung infections and other adverse side effects, as well as avoiding or delaying the need for lung transplant surgery in cystic fibrosis patients. Inhibitors are human proteins and therefore reduce the risk of kidney damage on administration of large doses of Trasylol proteins.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMIC	Drawings
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Terms

Documents

mucociliary clearance and bikunin

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